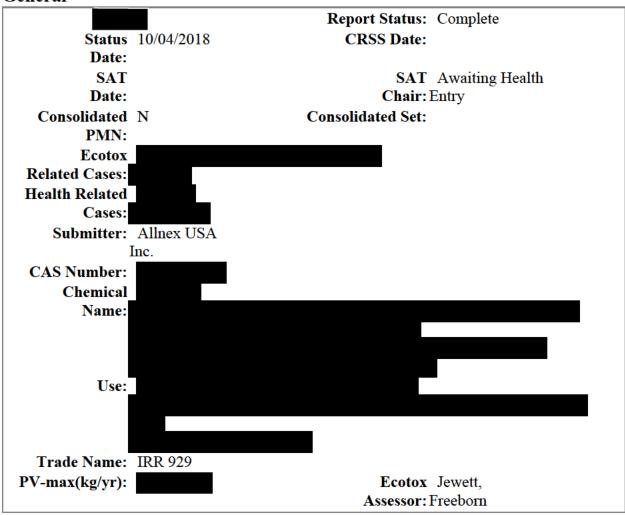
Ecotox Report for Case # P-18-0100

General



Fate Summary

Statement

```
Fate P-18-0100
Summary
Statement: FATE:
Solid

S = Disp.
VP < 1.0E-6 torr at 25 °C (E)
BP > 400 °C (E)

H < 1.00E-8 (E)
POTW removal (%) = 90 via sorption
Time
for complete ultimate aerobic biodeg > mo
```

Sorption to soils/sediments = v.strong PBT Potential: P3B1 *CEB FATE:

Migration to ground water = negl

Physical Chemical Information

Molecular Weight: Wt% < 500: Wt% < 1000: Physical Solid (est.) **State - Neat: Melting Melting Point:** Point (est): MP **(EPI):** Vapor Pressure: Vapor Pressure (est): <0.000001 VP (EPI): Water Solubility: Water Solubility (est): Dispersible **Water Solubility (EPI):** Henry's Law:: Log Koc: Log Koc (EPI): Log Log Kow: Kow (EPI): Log **Kow Comment:**

SAT

Concern Level

```
Ecotox 1
Rating (1):
Ecotox
Rating Comment
(1):
Ecotox Rating
(2):
Ecotox
Rating Comment
(2):
Ecotox
Rating Comment
(2):
Ecotox Route of No releases to
Exposure: water
```

Ecotox Comments

Exposure	N
Based Review	
(Eco):	
Ecotox	
Comments:	
Exposure Based	
Testing:	

PBT Ratings

Persistence	Bioaccumulation	Toxicity	Comments
3	1	Awaiting	
		Human Health	
		Entry	
		Awaiting	
		Human Health	
		Entry	
		Awaiting	
		Human Health	
		Entry	
		Awaiting	
		Human Health	
		Entry	
		Awaiting	
		Human Health Entry	

Eco-Toxicity

Comment:

Fate Ratings

Removal 9	<u></u>					
in WWT/POTW	0					
(Overall):						
Condition	Rating		Rating l	Description		Comment
	Values	1	2	3	4	
Fish BCF:						
Log Fish BCF:						
WWT/POTW	3	Low	Moderate	Strong	V. Strong	
Sorption:						
WWT/POTW	4	Extensive	Moderate	Low	Negligible	
Stripping:						
Biodegradation	4	Unknown	High	Moderate	Negligible	
Removal:						

Removal 9	0					
in WWT/POTW	U					
(Overall):						
Condition	Rating		Rating I	Description		Comment
	Values	1	2	3	4	
Biodegradation		Unknown	Complete	Partial		
Destruction:			-			
Aerobic Biodeg	4	<=	Weeks	Months	> Months	
Ult:		Days				
Aerobic Biodeg		<=	Weeks	Months	> Months	
Prim:		Days				
Anaerobic	4	<=	Weeks	Months	> Months	
Biodeg Ult:		Days				
Anaerobic		<=	Weeks	Months	> Months	
Biodeg Prim:		Days				
Hydrolysis (t1/2		<=	Hours	Days	>= Months	
at pH		Minutes				
7,25C) A:			**	D	. 36 4	
Hydrolysis (t1/2		<= Minutes	Hours	Days	>= Months	
at pH 7,25C) B:		Minutes				
Sorption to	1	V.	Strong	Moderate	Low	
Soils/Sediments:	1	v. Strong	Suong	Moderate	LOW	
Migration to	1	Negligible	Slow	Moderate	Rapid	
Ground Water:	1	regugiore	DIOW	Moderate	тарта	
Photolysis A,		Negligible	Slow	Moderate	Rapid	
Direct:		-66-314			.	
Photolysis B,		Negligible	Slow	Moderate	Rapid	
Indirect:					1	
Atmospheric Ox		Negligible	Slow	Moderate	Rapid	
A, OH:		- -			-	
Atmospheric Ox		Negligible	Slow	Moderate	Rapid	
В, О3:						
Bio Comments:						
Fate Comments:						

Ecotoxicity Values

Test organism	Test Type	Test Endpoint	Predicted E	Experimental Comments
Fish	96-h	LC50	>100	
Daphnid	48-h	LC50	>100	
Green Algae	96-h	EC50	>100	
Fish	-		>10	

Test organism	Test Type	Test Endpoint	Predicted	Experimental Comments
		Chronic		
		Value		
Daphnid	-	Chronic Value	>10	
Green Algae	-	Chronic Value	>10	
Ecotox Value P	redictions are	based on SARs for	anionic pol	ymers;
Comments:				solid (est.)
W	ith an unknow	m MP (P); S = disp	ersible (P);	effective concentrations
	1 1000/	4: : 1:4-	1	1 4 4
b	ased on 100%	active ingredients	and mean m	easured concentrations;

Ecotox Factors

Factors	Most Sensitive Endpoint	Assessment Factor	CoC	Comment
Acute Aquatic (ppb):	100,000	5	20,000	
Chronic Aquatic (ppb):	10,000	10	1,000	

Factors	Values	Comments	
SARs:	Anionic Polymers		
SAR Class:			
TSCA NCC			
Category?	Polyanionic Polymers		
	(Momomers)		

Recommended

Testing:

Ecotox Factors Environmental

Comments: Hazard: Environmental hazard is relevant to whether a new chemical substance is likely to present unreasonable risks because the significance of the risk is dependent upon both the hazard (or toxicity) of the chemical substance and the extent of exposure to the substance. EPA estimated environmental hazard of this new chemical substance using hazard data on analogous chemicals. Based on these estimated hazard values, EPA concludes that this chemical substance has a low environmental hazard.

·Substance falls within the TSCA New Chemicals Categories

of Polycationic polymers (&monomers)
· SAR chemical class of

· Low hazard for the PMN and low molecular weight oligomers with an acute and chronic CoC of

ppb and 1,000 ppb, respectively

Comments/Telephone Log

Artifact		Update/Upload
		Time